

# Technical Comparison - ALERT™ J5

Item Specification	Response	Comparison ALERT J5
1 Alcotest with portable printer	Comply	ALERT J5 is a professional breath alcohol tester using a high performance electrochemical sensor that provides conformity to the highest standards for evidential breath analyzers. It is offered with a portable printer and connection with a computer interface for managing the subject and breath alcohol test data.
2 Determination of alcohol concentration in the expired air of the patient	Comply	ALERT J5 tester enables the subject to provide a continuous and uninterrupted flow of breath above a minimum threshold pressure (flow rate) and for a minimum duration of time to enable the expiration of the requisite volume of breath to capture an end expiratory sample for analysis of alcohol concentration.
3 Electrochemical sensor	Comply	ALERT J5 is a professional breath alcohol tester using a high performance electrochemical sensor that provides conformity to the highest standards for evidential breath analyzers. The high performance electrochemical sensor provides accuracy and longevity of use for professional applications.
4 LCD or LED screen	Comply	ALERT J5 tester has a graphical LCD display with backlight for night time viewing.
5 Units of measure : mg/L	Comply	ALERT J5 tester will display the measured breath alcohol concentration in milligrams of alcohol in one litre of breath (mg/L) or other units of measure as required.
6 Measurement : 0 to 2.5 mg/L	Comply	ALERT J5 tester has a range of measure from 0.000 mg/L to 2.500 mg/L

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7	Scale : 0.01 mg/L	Comply	ALERT J5 tester provides the measurement of breath alcohol concentration with a precision of 0.01 mg/L in the normal mode of operation of use and with a precision of 0.001 mg/L in the laboratory mode for calibration and verification tests.
8	Error : maximum 10%	Comply	ALERT J5 tester has a maximum error of measurement of $\pm 0.020$ mg/L for BrAC values up to 0.400 g/dL and 5% of the measurement for BrAC values above 0.400 mg/L.
9	Possible to take the sample with mouthpiece tip and without, automatic result after the minimum volume of expired air, passive sampling by button	Comply	ALERT J5 tester requires the subject to provide a continuous and uninterrupted flow of breath above a minimum pressure (flow rate) and for a minimum duration of time to enable the the expiration of the requisite volume of breath to capture an end expiratory sample for analysis of alcohol concentration. With an optional breath sampling cup, the subject may breath against the cup and the instrument will be controlled with a button to capture and analyze a passive sample of breath.
10	Memory : minimum 2,000, sound and visual alarm	Comply	ALERT J5 tester has an electronic memory with sufficient capacity to store 10,000 test records. The instrument has audible indicator tones that sounds to indicate the operating (status) condition change. The instrument has an LCD display to provide visual indications of error or other alarm conditions.
11	Start : maximum 20 seconds, results : maximum 30 seconds	Comply	ALERT J5 tester is ready for testing within ten (10) seconds of power on of the instrument. The instrument provides the measured BrAC results within ten (10) seconds after the breath sample has been captured for analysis.

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12	Internal battery or rechargeable batteries, battery charge sign, battery for minimum 500 samples, automatic turning off in case of not using	Comply	ALERT J5 tester is powered by two (2) AA alkaline batteries that may provide over 1000 samples at room temperature. The instrument has a battery strength indicator that is always evident on the LCD display. The instrument will automatically power off in case of non use.
13	Charge power : 220 volt, 50 Hz	Comply	ALERT J5 tester may also be powered by rechargeable NiMH AA batteries that are charged with AC 220 volt, 50 Hz mains supply. The printer has an internal Li-ion battery pack that may be charged with AC 220 volt, 50 Hz mains supply.
14	Working temperature : -5 to +50 °C; humidity : 10 - 100 % without condensation	Comply	ALERT J5 tester may be operated over the ambient temperature range of -5 °C to +50 °C when powered only by the internal batteries. The operating temperature range may be extended to -20 °C to +50 °C with the DC 12 volt in-vehicle power adapter. The instrument will operate over the ambient relative humidity range of 10 to 100% without condensation.
15	Shock and falling proof	Comply	ALERT J5 tester will withstand shock and drop tests for handheld use.
16	Accessories : bag with pockets for devices, printer, mouth tips and other accessories	Comply	ALERT J5 tester is provided with a durable carry case that houses the instrument, the portable printer, associated charging adapters and cables, mouthpieces and printer paper rolls.
17	Printer : integrated or separated, connection with Bluetooth, Wi-Fi or infrared, thermal, integrated battery	Comply	ALERT J5 tester instrument test kit includes a portable printer connected by Bluetooth technology.